

I claim:

1. A gasket comprising at least one metal layer having at least one through-hole and at least one metal ring welded thereto, said at least one metal ring being arranged around said at least one through-hole, wherein said at least one metal layer and said at least one metal ring are welded to each other along a welding bead said welding bead keeping said at least one metal layer and said at least one metal ring in a spaced-apart relationship to each other.
2. The gasket according to claim 1, wherein said at least one metal layer and said at least one metal ring are kept in a spaced-apart relationship by a distance which is constant around said at least one through-hole.
3. The gasket according to claim 1, wherein said at least one layer and said at least one metal ring are kept in a spaced-apart relationship by a distance which varies around said at least one through-hole.
4. The gasket according to claim 1, wherein said welding bead is compressible.
5. The gasket according to claim 1 wherein said at least one metal layer is made of a material selected from the list of aluminum, sheet steel, stainless steel, spring steel and carbon steel.
6. The gasket according to claim 1, wherein said at least one metal ring is made of a material selected from the list of copper, bronze, aluminum, sheet steel, stainless steel, spring steel and carbon steel.
7. The gasket according to claim 1, wherein said welding bead extends continuously around said at least one through-hole.

8. The gasket according to claim 1, wherein said at least one metal layer comprises at least one sealing bead.
9. The gasket according to claim 8, wherein said sealing bead is arranged around said at least one metal ring.
10. The gasket according to claim 9, wherein a further metal ring is arranged around the sealing bead.
11. The gasket according to claim 8, wherein said at least one metal ring is arranged around the sealing bead.
12. The gasket according to claim 8, wherein said welding bead is arranged within the sealing bead.
13. The gasket according to claim 1, wherein the gasket comprises two adjacent metal layers with sealing beads located in each metal layer and arranged opposite with respect to each other.
14. The gasket according to claim 1, wherein the gasket comprises two adjacent metal layers with sealing beads located in each metal layer and arranged offset with respect to each other.
15. The gasket according to claim 1, wherein the gasket comprises two metal layers, at least one of which has an indentation or cranking for symmetrically aligning the metal ring.
16. A method for manufacturing a gasket comprising generating a welding bead in at least one of a metal layer and metal ring and generating a welding joint between the metal layer and the metal ring by projection welding.

17. The method according to claim 16, wherein the welding bead is generated with a shape before the welding process selected from the list of U-shaped, V-shaped, Ω -shaped and trapezoidal cross section.
18. The method according to claim 16, wherein the welding bead is generated in the metal layer and during generating the welding bead in the metal layer a sealing bead is generated in the metal layer.
19. The method according claim 16, wherein a welding current for generating the projection welding joint is provided by discharging a capacitance.
20. The method according to claim 16, wherein during generating the welding joint, at least one deformation limiter is arranged within the welding bead.
21. The method according to claim 16, wherein during generating the welding joint, at least one abutment element is arranged outside the welding bead.